

## ABSTRACT

[0062] A portable thread environment comprising: an application programming interface configured to support multiple application program tasks, wherein each task is either a preemptive task comprised of preemptive threads or a cooperative task comprised of cooperative threads; host adaptation logic for communicatively interfacing said cooperative tasks, preemptive tasks, cooperative threads and preemptive threads with a host processing environment; a scheduler configured to determine an execution order of cooperative threads and preemptive threads based on each cooperative thread's and preemptive thread's priority levels.

2025 RELEASE UNDER E.O. 14176